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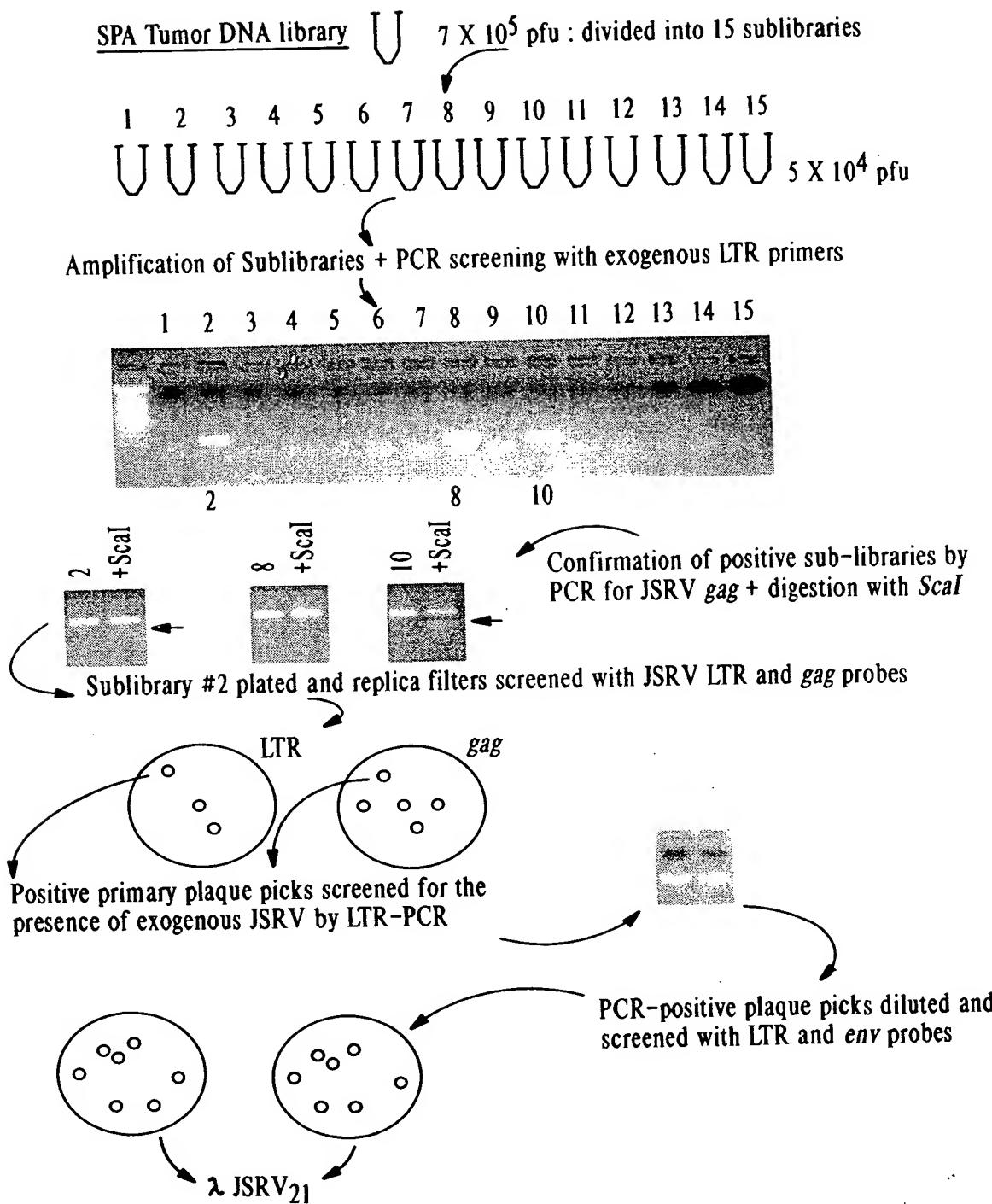


FIG. 1

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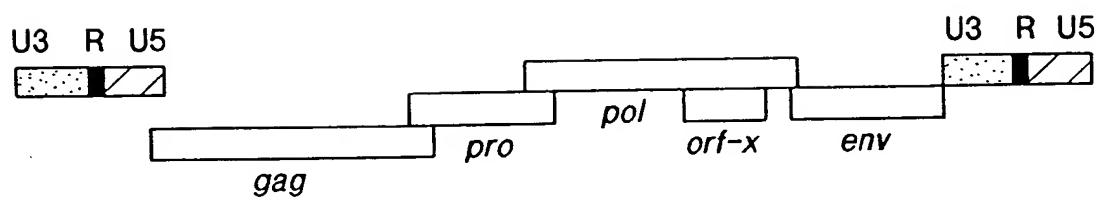


FIG. 2a

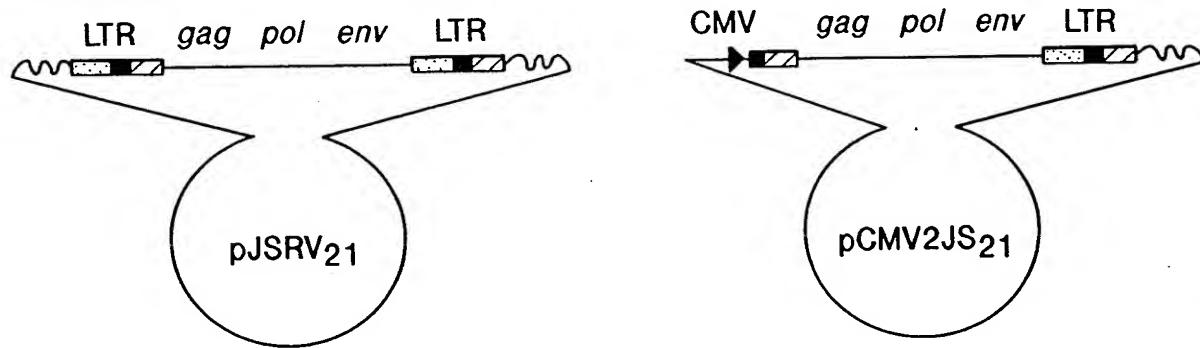


FIG. 2b

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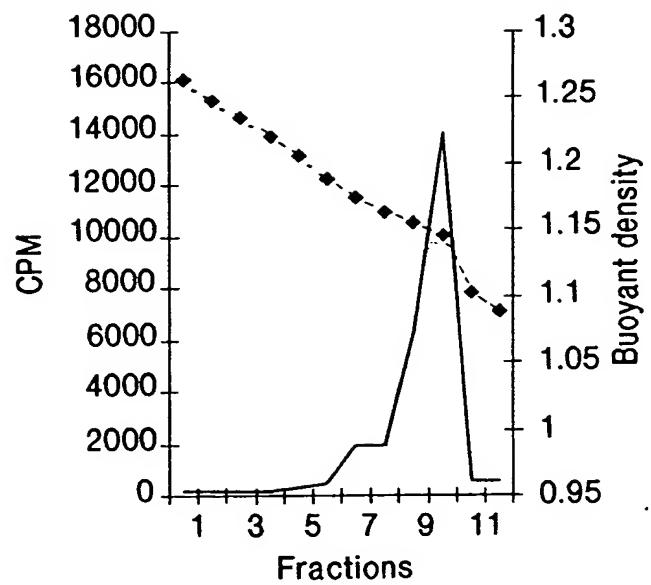


FIG. 3a

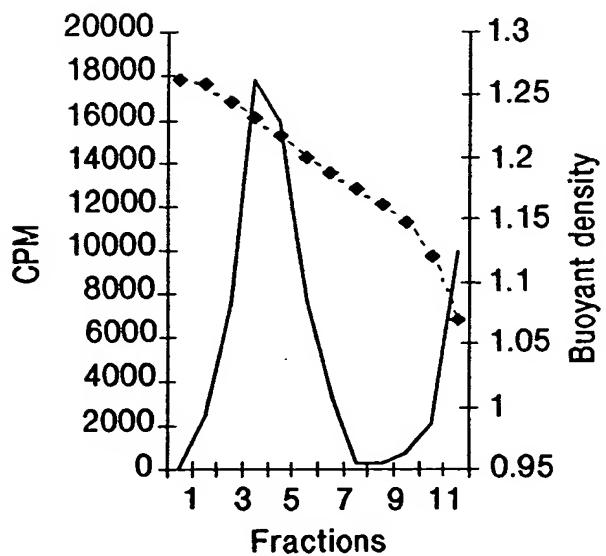


FIG. 3b

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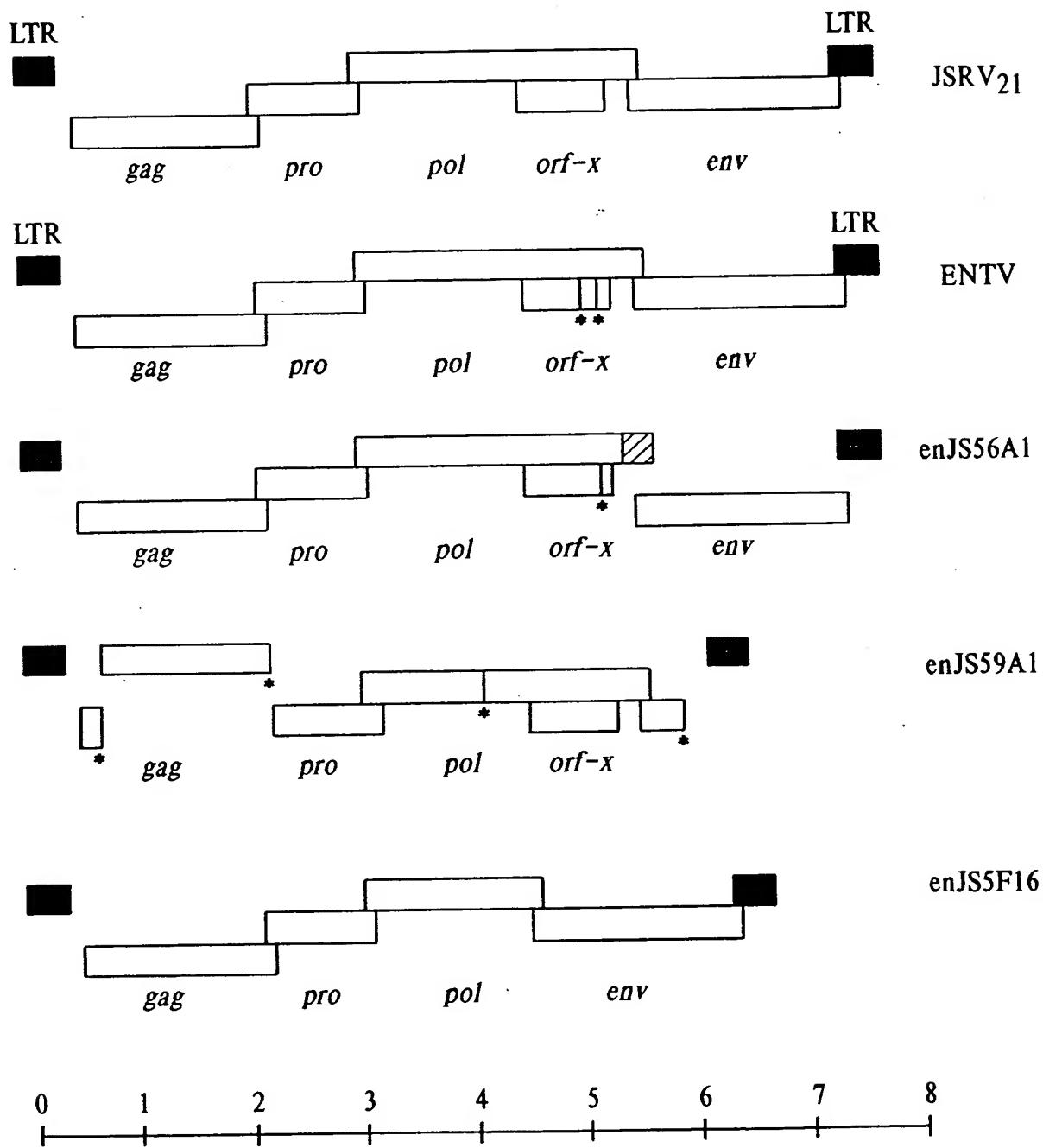


FIG. 4

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JSRV21	MGQTHSRQLFVHMLSVMLKHRGITVSKPKLINFLSFIEEVCPWFREGTVNLETWKKVGEQIRTHYTLHGPEKVPVETLS	80
JSRV-SA	H.....T.....	80
ENTV	.....I.....	80
enSF16	.....I.....	80
en56A1	.....W.....	80
VR1		
JSRV21	FWTLIRDCLDFONDDELKRLGNLLKQEEEDPLHTPDGSPSYDPPP---PPPPSLKM-HPSNDNDLSSSTDEAELDEEAKYH	156
JSRV-SA	.....V.....	156
ENTV	.....D.....EN.....A.....H.....HSSR.....	157
enSF16	.....V.....E.R.AV.EGVKSD..FSNLL.....	160
en56A1	.....C.....V.....V.....E.R.AV.EGVKSD..FSNLLR	160
VR2		
JSRV21	QEDWGFLAQEKGALTSKDELVECFKNLTIALQNAGISLP-HNNTFPSAPPFFPAYTPSVMAGLDPPPGFPPPSKHMSPHQ	235
JSRV-SA	.....Q.....SN.....T.....	236
ENTV	.....K.....AN.....DK.....L.....A.....V.....PL.....N.....	237
enSF16	.....K.....SN.....AKS.....L.....A.....V.....P.....EN.....	240
en56A1	.....V.....K.....SN.....AKS.....L.....A.....V.....P.....EN.....	240
CA		
JSRV21	RALRQAQRLGEVVSDFSLAFPVFENNQRYYESLPFKQLKELKIAQSQYGGPTAPFTIAMENLGTQALPPNDWKQTARAC	315
JSRV-SA	K.....S.....	316
ENTV	K.....	317
enSF16	K.....	320
en56A1	K.....	320

FIG. 5-1

<i>Hpal</i>		395
JSRV21	L S G G D Y L L W K S E F F E Q C A R I A D V N R Q Q G I Q T S Y E M L I G E G P Y Q A T D T Q L N F L P G A Y A Q I S N A A R Q A W K R L P S S S T K T E D L	396
JSRV-SA	.....	.....
ENTV	.....	.....
enSF16	..... H .....	..... K
enS6A1	.....	..... K
	CA	475
JSRV21	S K V R Q G P D E P Y Q D F V A R L L D T I G K I M S D E K A G M V L A K Q L A F E N A N S A C Q A A L R P Y R K K G D L S D F I R I C A D I G P S Y M Q G I A	476
JSRV-SA	.....	.....
ENTV	.....	.....
enSF16	.....	.....
enS6A1	..... Q .....	..... A
	CA	476
JSRV21	M A A A L Q G G K S I K E V L F Q Q Q A R N K K G L Q K S G N S G C F V C G Q P G H R A A V C P Q K Q Q G P V N T P N L C P R C K K G K H W A R D C R S K T D V Q	555
JSRV-SA	.....	.....
ENTV	.....	..... H . T S
enSF16	.....	..... R . R . R
enS6A1	.....	..... L
	CA	556
JSRV21	G N P L P P V S G N W V R G Q P L A P K Q C Y G A T L Q V P K E P L Q T S V E P Q E A A R D W T S V P P P I Q Y .	557
JSRV-SA	.....	.....
ENTV	..... T .....	..... T
enSF16	.....	..... G
enS6A1	.....	..... G
	CA	560
JSRV21	G N P L P P V S G N W V R G Q P L A P K Q C Y G A T L Q V P K E P L Q T S V E P Q E A A R D W T S V P P P I Q Y .	560
JSRV-SA	.....	.....
ENTV	..... T .....	..... T
enSF16	.....	..... G
enS6A1	.....	..... G
	CA	560
JSRV21	G N P L P P V S G N W V R G Q P L A P K Q C Y G A T L Q V P K E P L Q T S V E P Q E A A R D W T S V P P P I Q Y .	612
JSRV-SA	.....	.....
ENTV	..... T .....	..... T
enSF16	.....	..... G
enS6A1	.....	..... G
	CA	613
JSRV21	G N P L P P V S G N W V R G Q P L A P K Q C Y G A T L Q V P K E P L Q T S V E P Q E A A R D W T S V P P P I Q Y .	614
JSRV-SA	.....	.....
ENTV	..... T .....	..... T
enSF16	.....	..... G
enS6A1	.....	..... G
	CA	617
JSRV21	G N P L P P V S G N W V R G Q P L A P K Q C Y G A T L Q V P K E P L Q T S V E P Q E A A R D W T S V P P P I Q Y .	617
JSRV-SA
ENTV T T
enSF16 G
enS6A1 G
	CA	617

FIG. 5-2

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JSRV21	MPKRRAGFRKGWYARQRNSLTHQMQRMTLSEPTSELPTQRQIEALMRYAWNEAHVQPPVTPTNILIMLLLQRVQNGAA	87
JSRV-SA	.....	80
ENTV	.....H.....Y.....N.T.NG.....V.....H.....	80
enJS56A1	.....	87
enJS5F16	.....HK.....	87
JSRV21	AAFWAYIPDPPMISLGWDREIVPVVYVNDTSLLGGKSDIHISPOQANISFYGLTQYPMCFSYQSQHPHCIQVSADISYP	167
JSRV-SA	.....	160
ENTV	.....	160
enJS56A1	.....K.T.....	167
enJS5F16	.....K.T.....	167
JSRV21	RVTISGIDEKTGKKSYGNGSGPLDIPFCDKHLSIGIGIDTPWTLCRARVASVYNINNNANATEFLWDWAPGGTPDFPEYRGQ	247/13
JSRV-SA	.....T.....	240
ENTV	.....R..R..T.....N...S.....I.....T.L.....	240
enJS56A1	.....R..RD..T.....PI.....T.L.....	247
enJS5F16	.....R..RD..T.....I.....T.L.....	247
JSRV21	HPPIFSSVNTAPIYQTELWKLIAAFGHGNSLYLQPNISGSKYCDVGVTGFLYPRACVYPYFFMLIQQHMEITLSNIYHINC	327
JSRV-SA	.....T.....	320
ENTV	.....L.....F.....	320
enJS56A1	.....	327
enJS5F16	.....L.....F.....	327

FIG. 6-1

SU → TM

JSRV21	SNCILITNCIRGVAKGEQVIIIVKQPAFVMLPVETIAEWYDETALELLQRINTALSRPKRGSLIILGIVSLITLIATAVTA	407
JSRV-SA	.....	400
ENTV	.....T.E.	400
enJS56A1	.....T.E.	407
enJS5F16	.....T.E.	407
JSRV21	SVSLAQSIQAAHTVDSLSSYNVTKVMTQEDIDRKKIEDRLLSALYDVVRVLGEQVQSVINFRMKIQCHANQKWCIVTKKPYNT	487
JSRV-SA	C.....	480
ENTV	.....	480
enJS56A1	.....S.....N	487
enJS5F16	.....H	487
JSRV21	SDFPWDKVKKKHQGIWFNTNLSLDLQLHNEILDIDIENSPKATLNIADTVDNFLQNLFSNFPSSLHSLWKTLLIGVGLVFLII	567
JSRV-SA	.....	560
ENTV	.....N	560
enJS56A1	.....	567
enJS5F16	.....	567
V R3		
JSRV21	IVVILIEPCLVRCMVRDFIKMVRVEMLHMKYRNMLQHQHLMELLKNKERGDAGD--D-P	622
JSRV-SA	AI..FV...V...L.....T.....R.....A.....P.	616
ENTV	....LV...T..LIK..Q..I..LI....Y..Y..K..DFV..KR..GSCG..QPAEG.	618
enJS56A1	LII.CLA...I.SI.KE..H..-LI.--K.....A.--.P	618
enJS5F16	LII.CLA...I.SI.KE..H..-LI.--K.....A.--.P	618

FIG. 6-2

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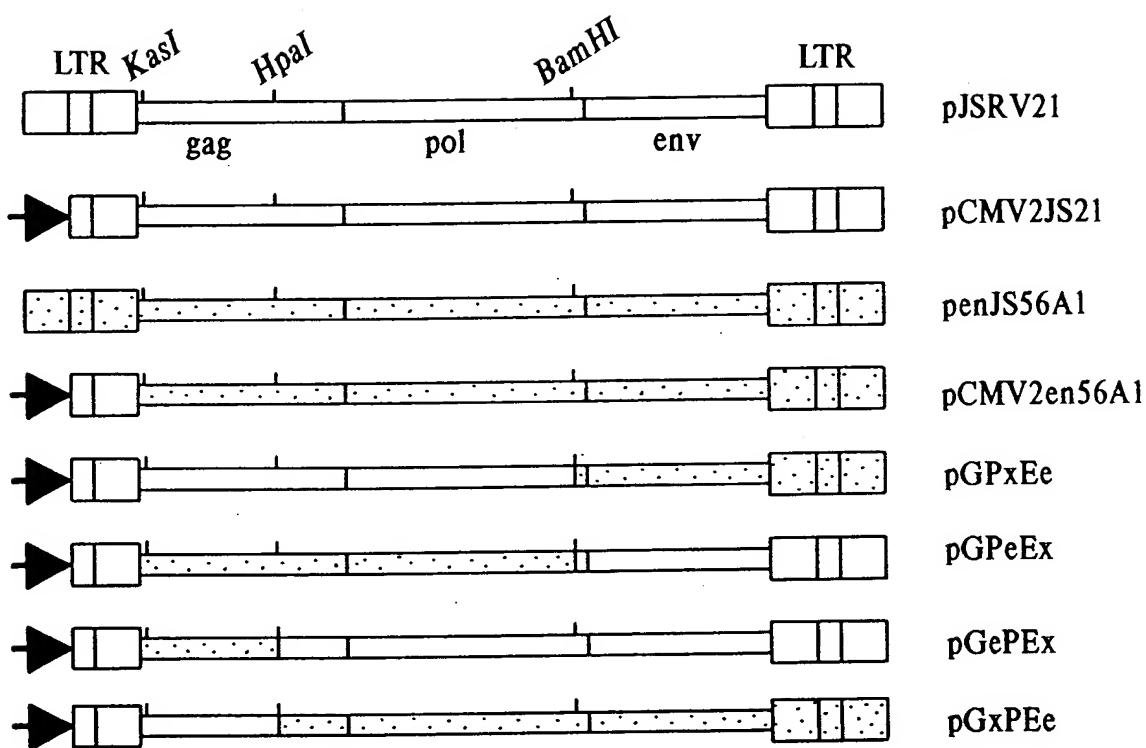


FIG. 7

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PBS	
JSRV21	TGGCGCCCAACGTCGGCTCGACAGTTCTTC-GCCACTACTCTCATTAATTGAAACAAAGTGACTATATGGAT
JSRV-SA	.....C.....C.....CT.....A.....
ENTV	.....C.....C.....-T.....T.....T.....A.....
enJS5F16	.....C.....C.....-.....T.....AG.....
enJS59A1	.....A.....C----AT.....C.....-.....T.....GC.....AG.....
enJS56A1	.....C.....C.....-.....T.....AG.....
<hr/>	
JSRV21	AAACGGGTGAATTAAAGGGAGTAGTAAGGTATATAAGTTGAGAGTATAAT
JSRV-SA	.....AA.....AGCC.....A.....
ENTVG.....TAA.....T.....CA.....A.....
enJS5F16C.....AA.....A.....G.....
enJS59A1T.....AA.....A.....G.....
enJS56A1C.....AA.....A.....G.....

FIG. 8

FIG. 9A

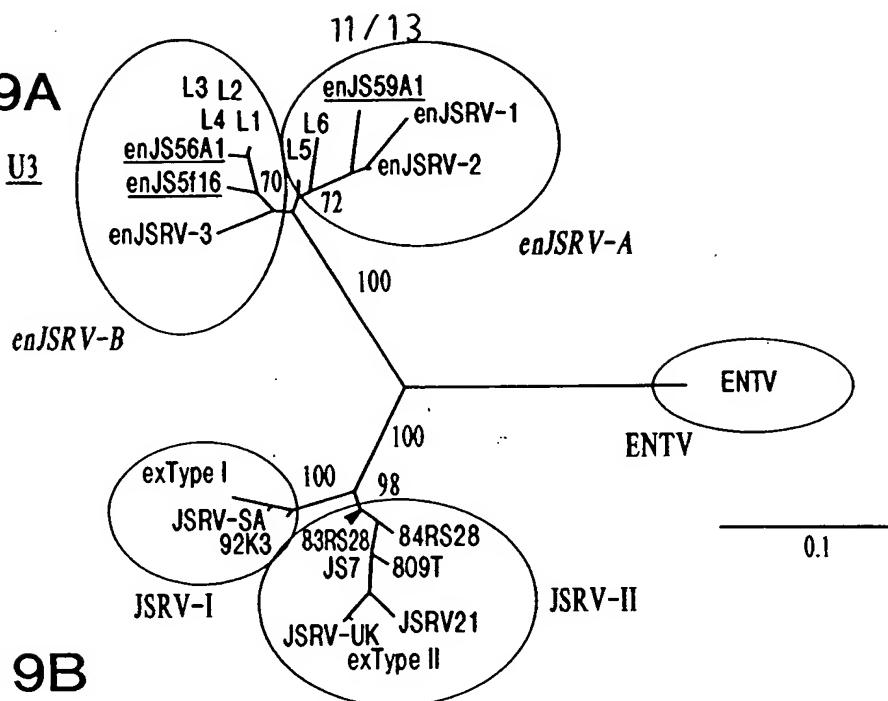


FIG. 9B

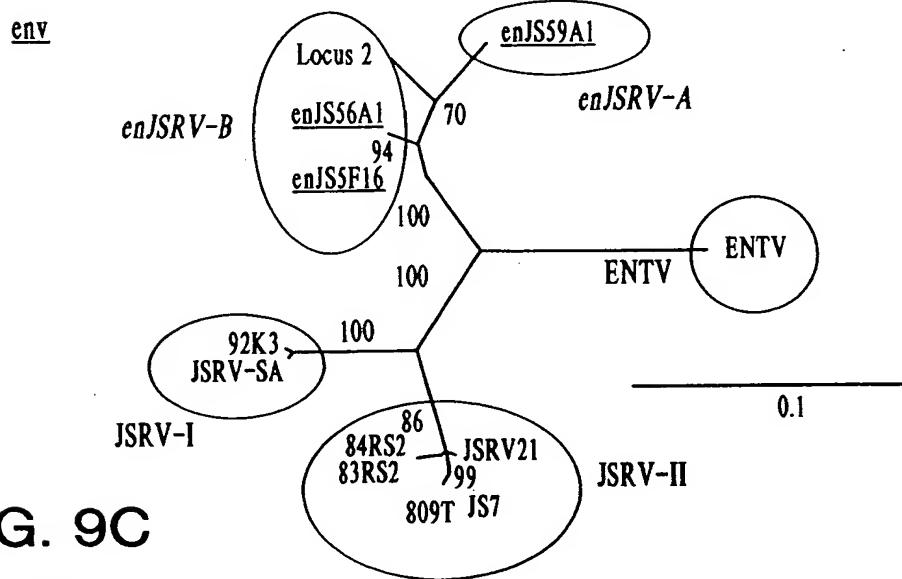
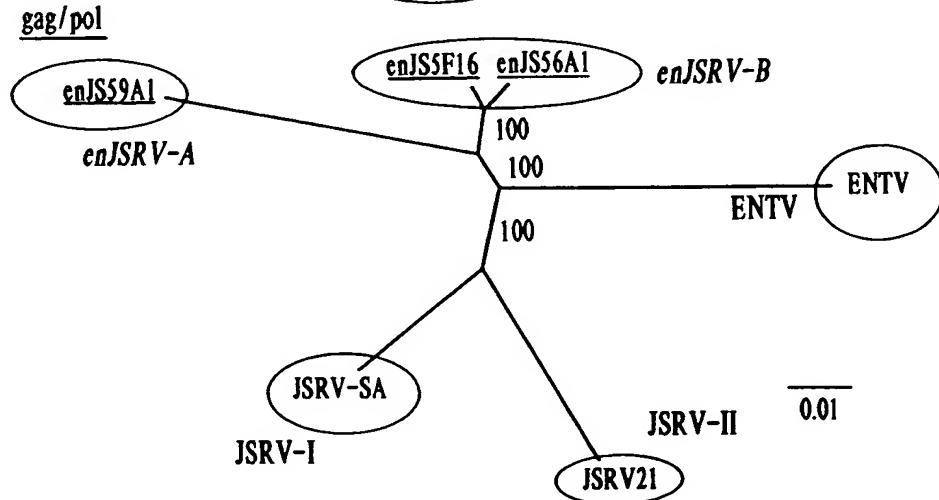
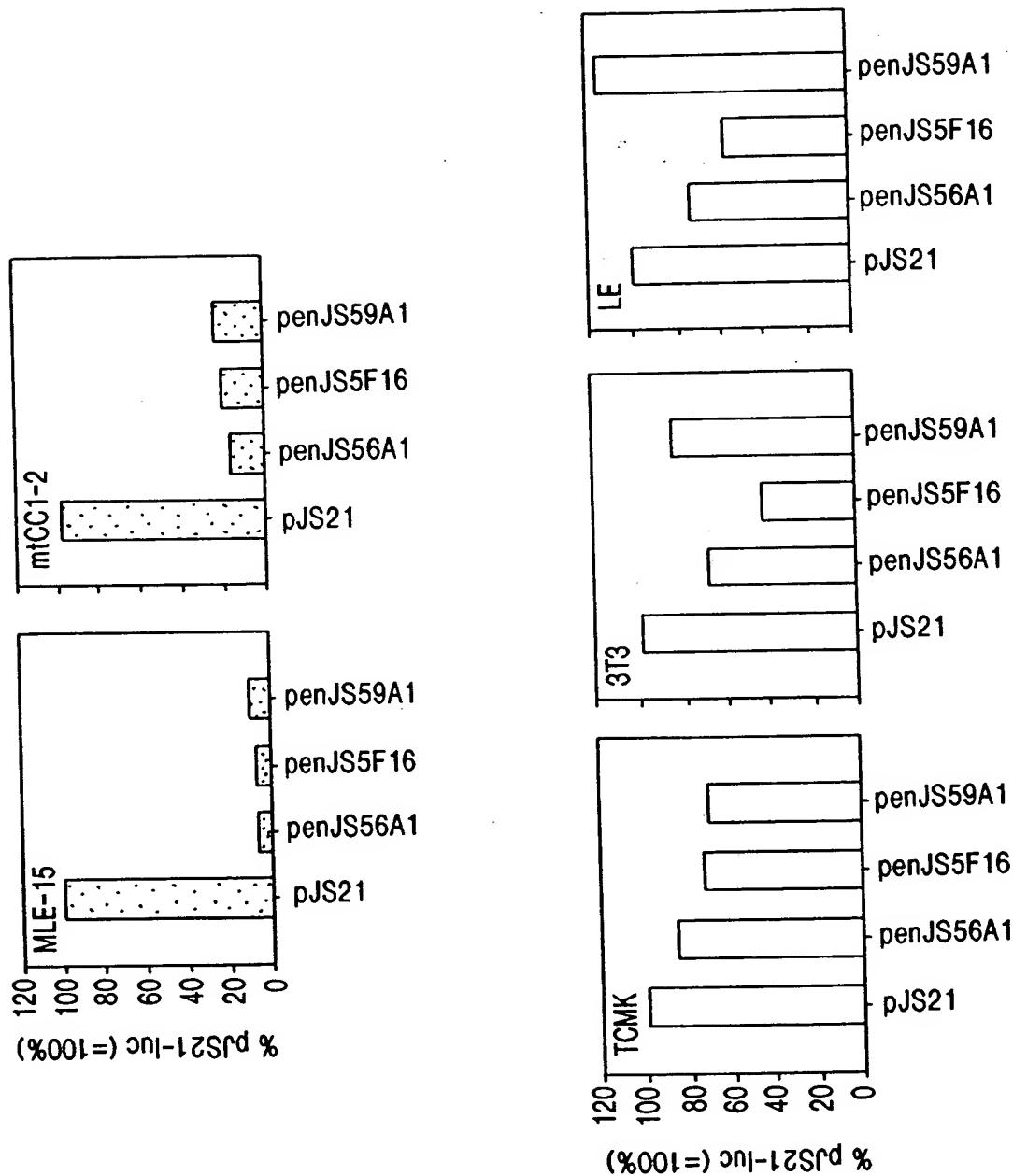


FIG. 9C



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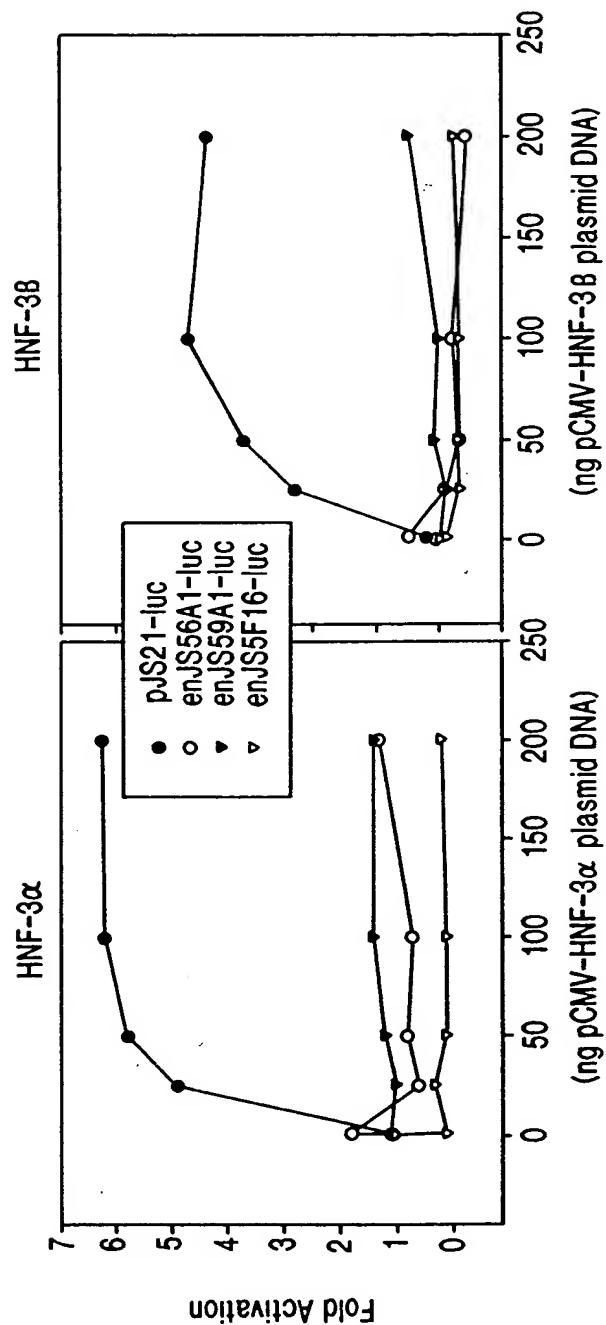


FIG. 11